

## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

### **LISTING OF CLAIMS**

1. (original) A fuel cell system, comprising:
  - (a) a fuel cell comprising an anode input for a hydrogen-containing anode supply stream, a cathode input for an oxidant-containing cathode supply stream, an anode effluent output, and a cathode output for cathode effluent comprising water produced by said fuel cell;
  - (b) a water transfer device, comprising (i) a device cathode effluent input connected to said cathode output, (ii) a device supply stream output connected to either or both of said fuel cell inputs, and (iii) a water-transfer membrane;  
wherein said water transfer device transfers water from said cathode effluent to either or both of said supply streams, and wherein the temperature of said cathode effluent at said device cathode effluent input is not significantly greater than the temperature of said cathode effluent at said cathode output; and said temperature at said device input being sufficient to maintain water in its vapor state and being greater than its dew point and up to about 10 °C above its dew point.
2. (original) A fuel cell system according to Claim 1, wherein said water transfer membrane comprises poly acid.
3. (original) A fuel cell system according to Claim 1, wherein said anode supply stream comprises reformat from a hydrocarbon fuel processor.

4. (original) A fuel cell system according to Claim 3, wherein said hydrocarbon fuel processor comprises an autothermal reformer.
5. (original) A fuel cell system according to Claim 1, wherein said water transfer device transfers water to said cathode supply stream.
6. (original) A fuel cell system, comprising:
  - (a) a fuel cell comprising an anode input for a hydrogen-containing anode supply stream, a cathode input for an air supply stream, an anode output for anode effluent comprising water produced by said fuel cell; and a cathode output for cathode effluent comprising water produced by said fuel cell;
  - (b) a compressor having an input for an air stream and an output connected to said cathode input of the fuel cell stack; and
  - (c) a water transfer device, comprising (i) a device effluent input connected to one or both of the outputs of said fuel cell, (ii) a device supply stream output connected to the input of said compressor, and (iii) a water-transfer membrane;wherein said water transfer device transfers water from one or both of said anode effluent and said cathode effluent outputs to said air stream input to the compressor; and  
wherein said cathode effluent has a temperature at said device input, said temperature being sufficient to maintain water in its vapor state and being greater than its dew point and up to about 10 °C above its dew point.
7. (original) A fuel cell system according to Claim 6, wherein said water transfer membrane comprises poly[perfluorosulfonic] acid.

8. (original) A fuel cell system according to Claim 6, wherein said anode supply stream comprises reformat produced by a hydrocarbon fuel processor.

9. (original) A fuel cell system according to Claim 8, wherein said hydrocarbon fuel processor comprises an autothermal reformer.

Claims 10-20. (cancelled)